U.S. Army Materiel Systems Analysis Activity
Providing analysis of Army materiel systems, technology, and logistics policies and concepts to support decision making for equipping and sustaining the Army
AMSAA

The Military Missions and Means Framework (MMF)

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Purpose

Provide information on the Missions and Means Framework for warfare representation.

Agenda

- Purpose
- Overview of the MMF
- Application of the MMF
- Transformation Support

MMF Overview

Purpose: Provide a framework for explicitly specifying the military mission and quantitatively evaluating the mission utility of alternative warfighting Doctrine, Organization, Training, Materiel, Leadership, Personnel, and Facilities (DOTMLPF) services and products.

Objective: Provide a disciplined procedure to explicitly specify the mission, allocate means, and assess mission accomplishment by:

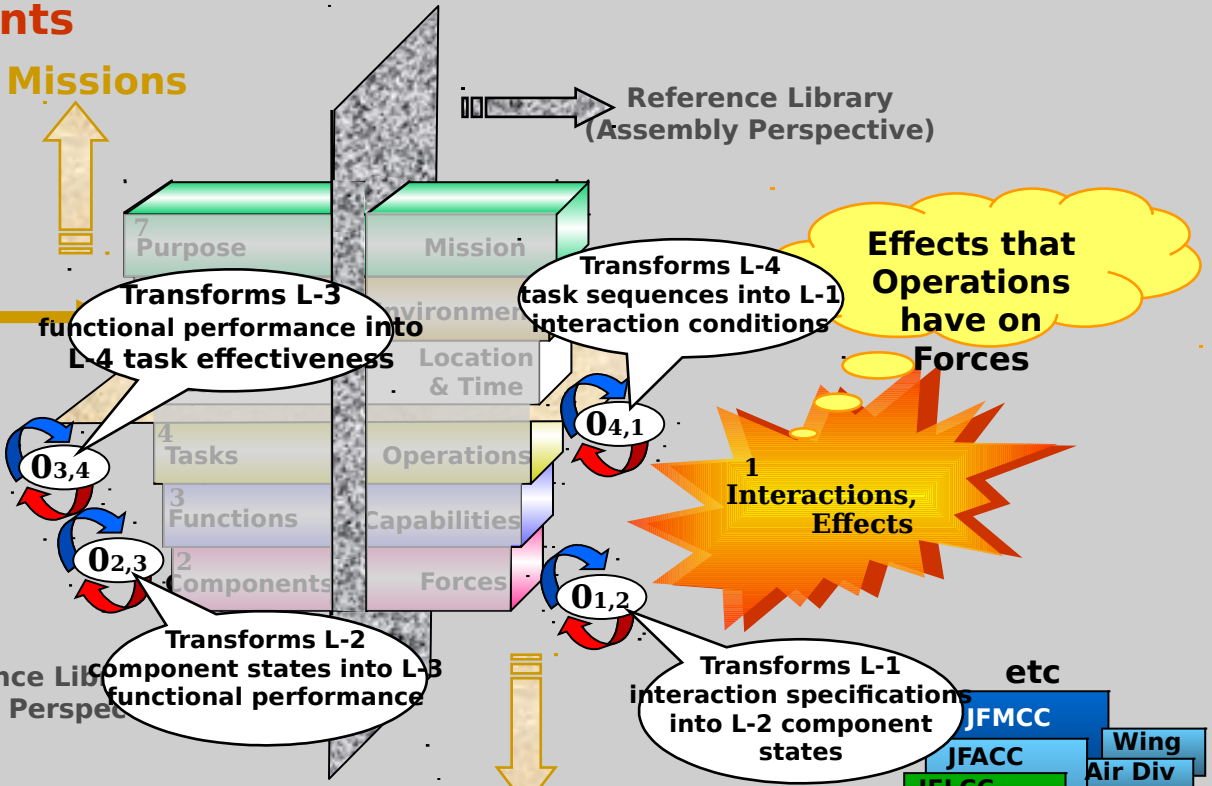
- Unifying the warfighter, engineer, and comptroller understanding of missions and means.
- Accounting for traditional testing and evaluation factors and traditional warfighter expertise factors that constitute mission success.
- Being sufficiently credible, timely, and affordable to make hard decisions that stay made.
- Being consistent, concise, repeatable, and scalable.
- Providing a disciplined process to implement the Defense

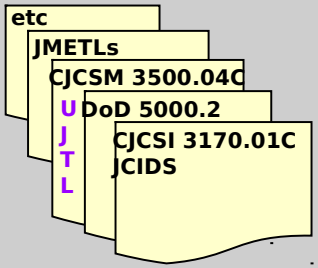
MMF Overview – The Framework

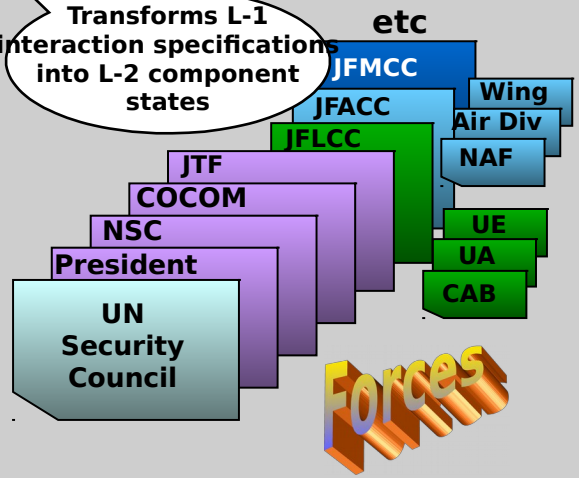
11 Fundamental Elements

Seven Levels/Four Operators

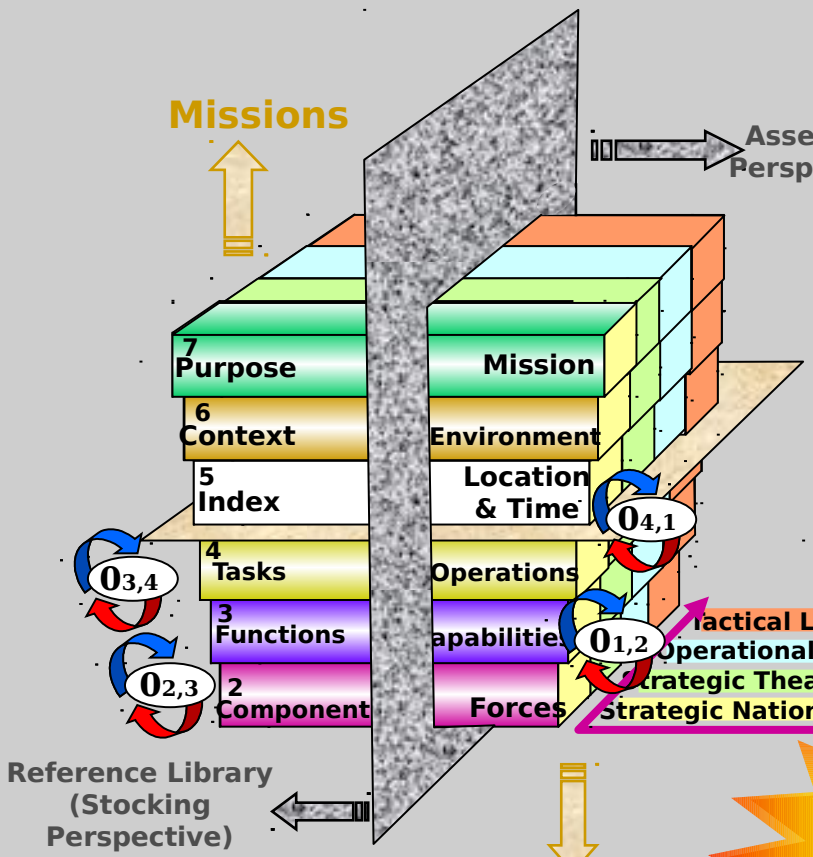
- What & Why
- Under What Circumstances
- Where & When
- Do What (Playbook)
- How Well
- By Whom







MMF Overview - Layered Decomposition



Strategic National

Strategic Theater

Operational

Tactical-Joint

Tactical-Service

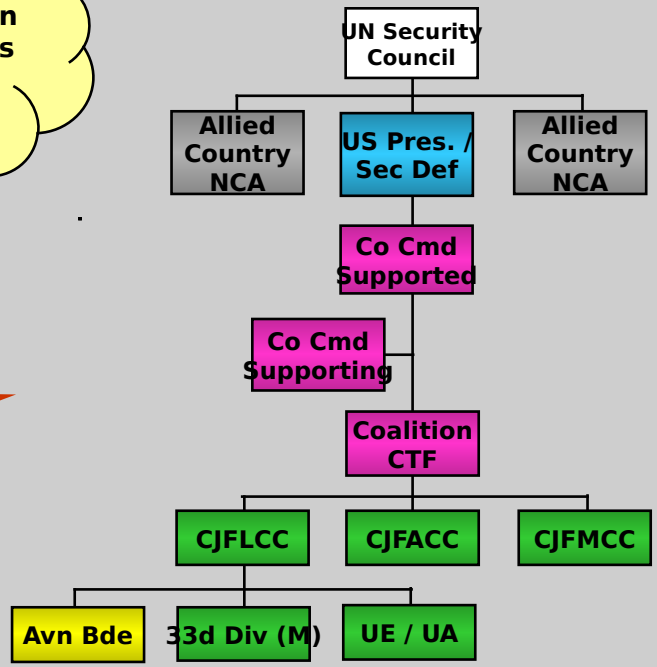
Universal Joint Task List (UJTL)

Army Universal Task List (AUTL)

ARTEP, MTPs, TTPs, STPs, FMs, TMs

Layered Decomposition by UJTL Levels of War & Echelons of Command

1 Interactions, Effects



MMF Application - Situation

Road to War

- **Radical elements form new government, seek to force recognition by UN as legitimate government.**
- **Legitimate, pro-Western Government of Orangeland is overthrown by radical elements and forced into exile.**
- **Majority of Orangeland's conventional military forces are loyal to new government. Orangeland invades neighboring country of Blueland.**
- **United States and its coalition partners believe national interests and regional stability are threatened. They take military action to drive Orangeland forces from Blueland; remove rebel government from power; restore legitimate, pro-Western government; stabilize region; and protect U.S. and coalition vital interests.**

Current Situation

- **Coalition forces have commenced offensive ground operations in the region to drive Orangeland forces out of Blueland and continue attacking to isolate rebel government leadership inside capital of Orangeland.**

Mission

- **CJFLCC intends to isolate rebel government leadership in the capital by defeating majority of conventional forces well outside the capital and preventing them from reinforcing security forces protecting the rebel leadership inside the capital.**

MMF Application – Key Tasks

JTF

1. Restore legitimate government
2. Achieve air superiority
3. Destroy WMD capability
4. Facilitate control of energy centers

Operational to Tactical: Nested Tasks

JFLCC

1. Secure capital region in Orangeland
2. Secure key oil and gas pipelines and prod facilities
3. Defeat rebel forces

UE

1. Attack to defeat rebel forces in zone
2. Conduct vertical maneuver to disrupt rebel forces
3. Secure key facilities

UA1

1. Secure key terrain vic OBJ CAMEL
2. Block enemy reinforcements from reaching capital

CAB2

1. Secure OBJ CAMEL in order to facilitate UA2 attack on OBJ BAT
2. Attack to defeat rebel forces attempting to return to capital

SN

ST

OP

TA-Joint

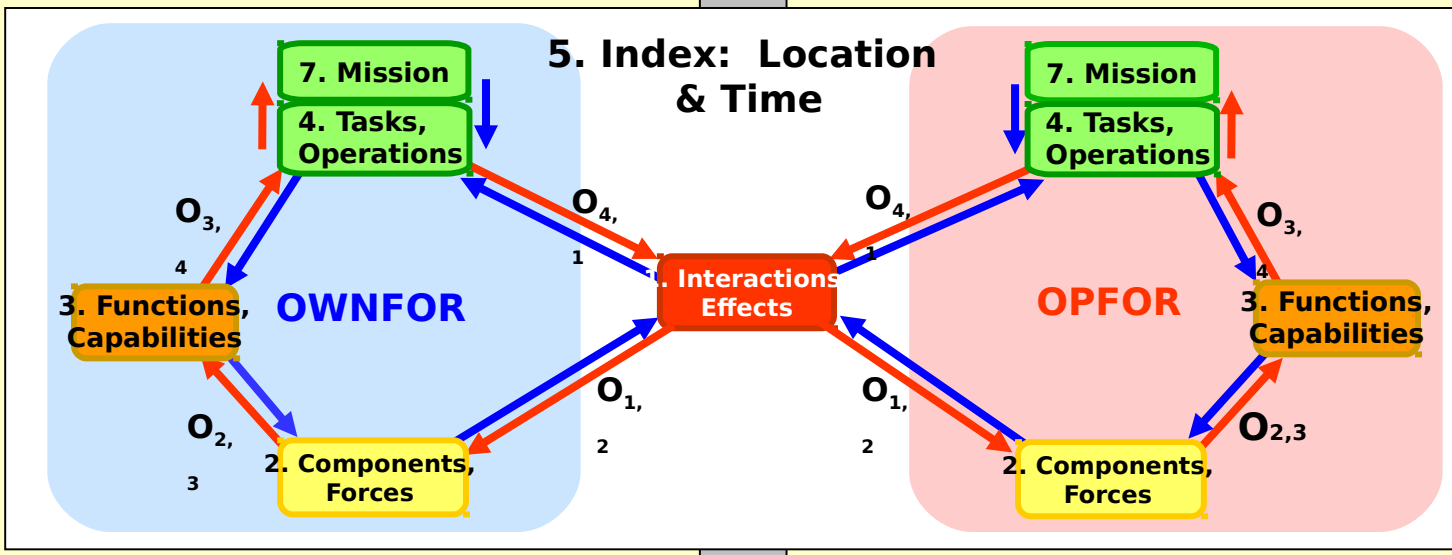
TA-Service

MMF Layered View

6. Context, Environment (Physical, Military, Civil, etc.)

7. OWNFOR Why = Purpose, Mission

7. OPFOR Why = Purpose, Mission



Synthesis

Employment

Relating Effects to Utility

Desired Conditions

Strategic MoEs:

- Legitimate government restored to power
- Territorial security of Orangeland ensured

Operational MoEs:

- Enemy conventional capabilities defeated
- Leadership in capital isolated

Tactical MoEs:

- Security forces inside capital defeated
- Capital surrounded

Attack Results:

- Conventional military forces blocked from reentering capital

Not Desired Conditions

Strategic MoEs:

- Rebel government maintains claim to power from an undisclosed location
- Rebel leaders play up "unprovoked" West attack and gain support for their government through successful world media campaign

Operational MoEs:

- Capital Defense Corps security forces are able to secure rebel leaders and get them out of the capital

Tactical MoEs:

- Conventional forces delay coalition forces from taking key objectives inside the capital and engaging Security Forces for Capital Defense Corps

CAB2 Attack Results:

- Conventional forces successfully reenter capital before main effort can reach its objective

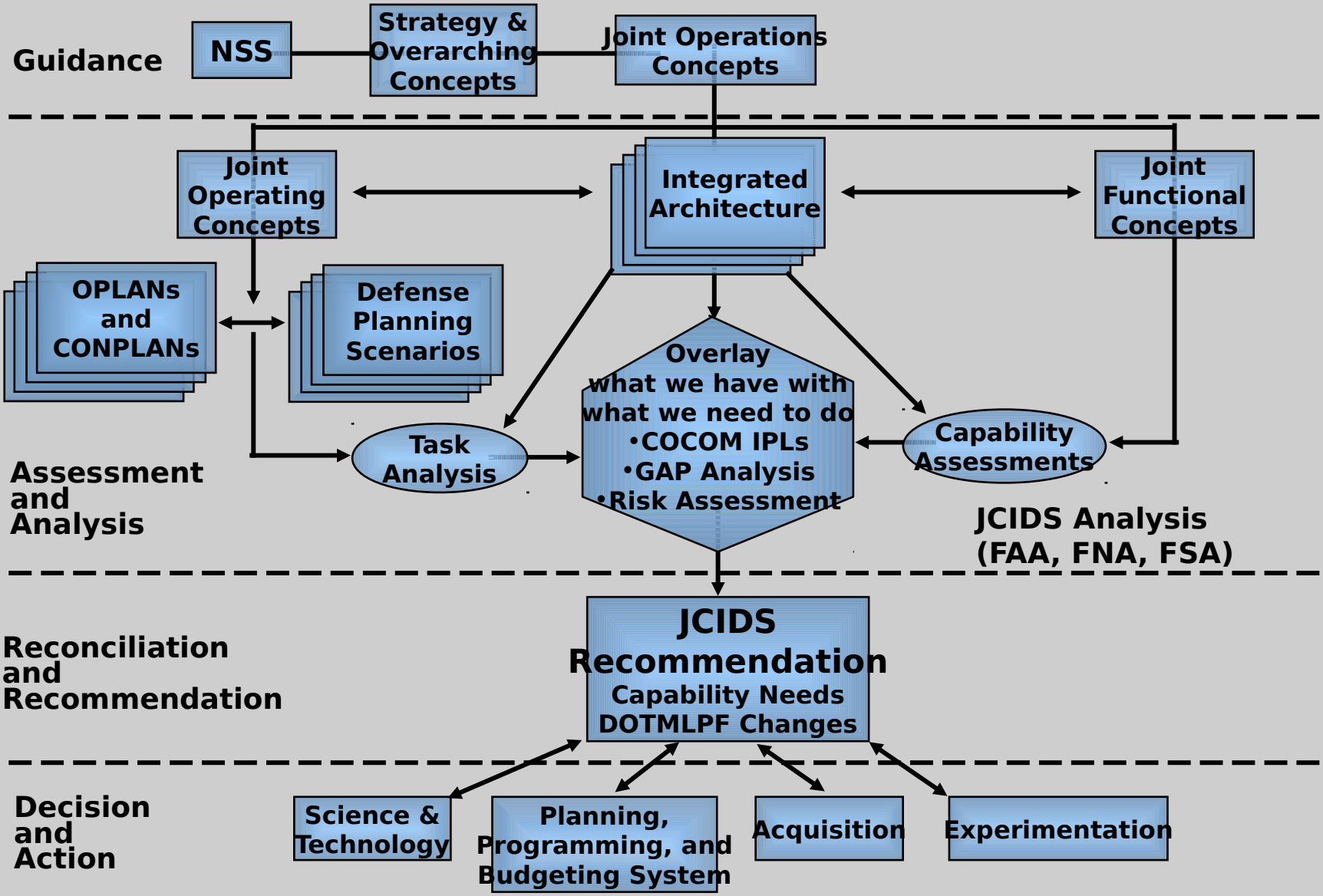
Successful

Unsuccessful

CAB2 Attack

Starting Conditions

CJCSI 3170
Signature Version



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Back Up Slides

Relating Effects to Utility

JTF Commander Strategic/Operational

Establish conditions for restoration of legitimate Pro-Western Government

JFLCC Operational

Isolate capital

UE Operational/Tactical

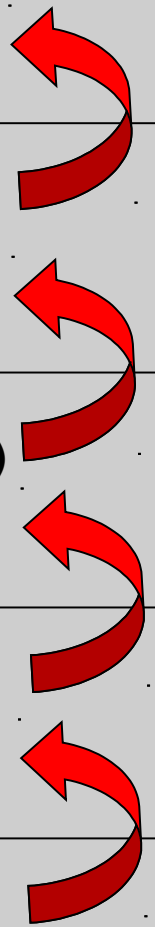
Secure Objectives vicinity of capital (Surround)
Defeat conventional opposing forces

UA Tactical

Prevent rebel forces from returning to the capital

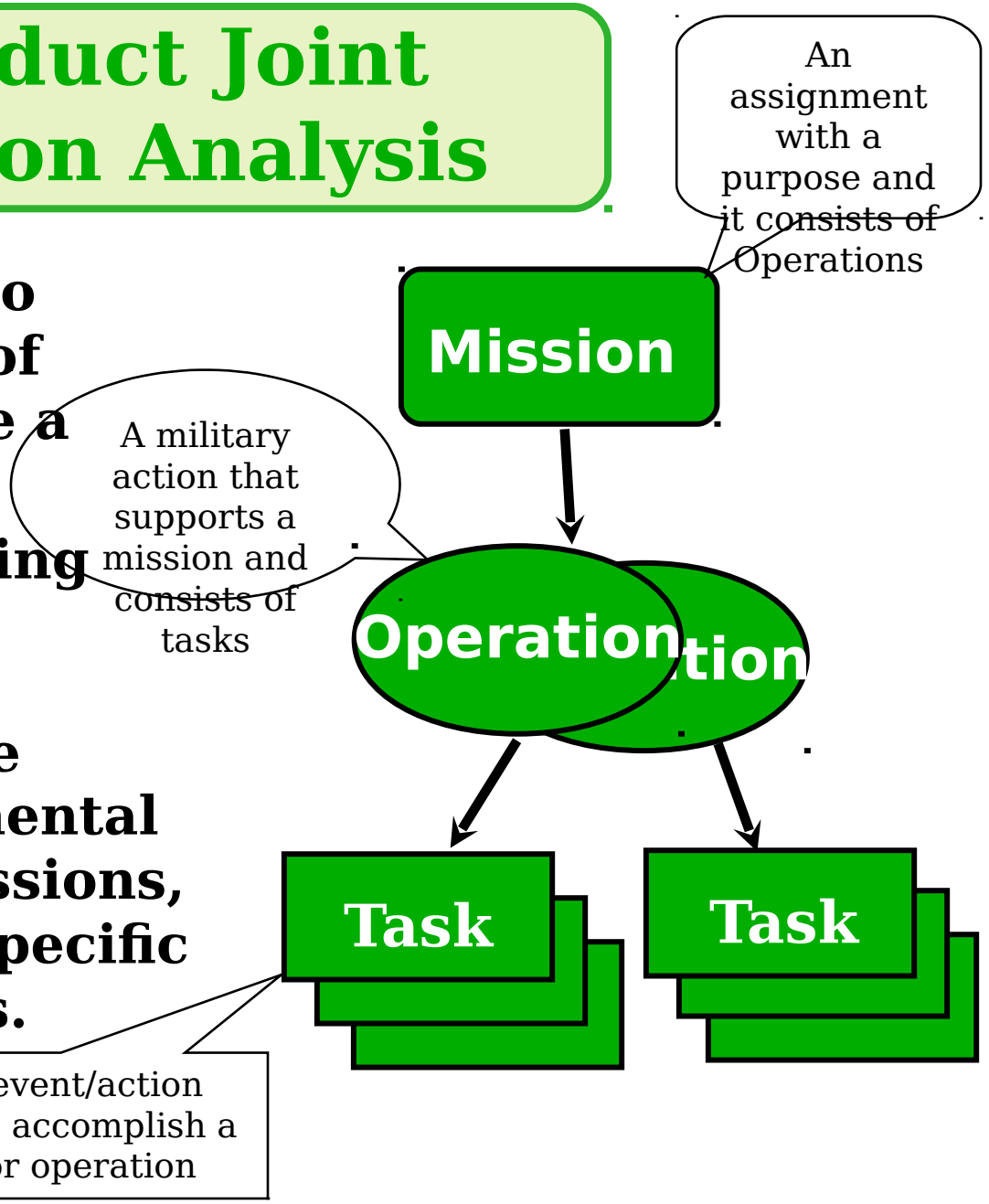
CAB Tactical

Seize OBJ Camel in order to prevent rebel forces from crossing bridge

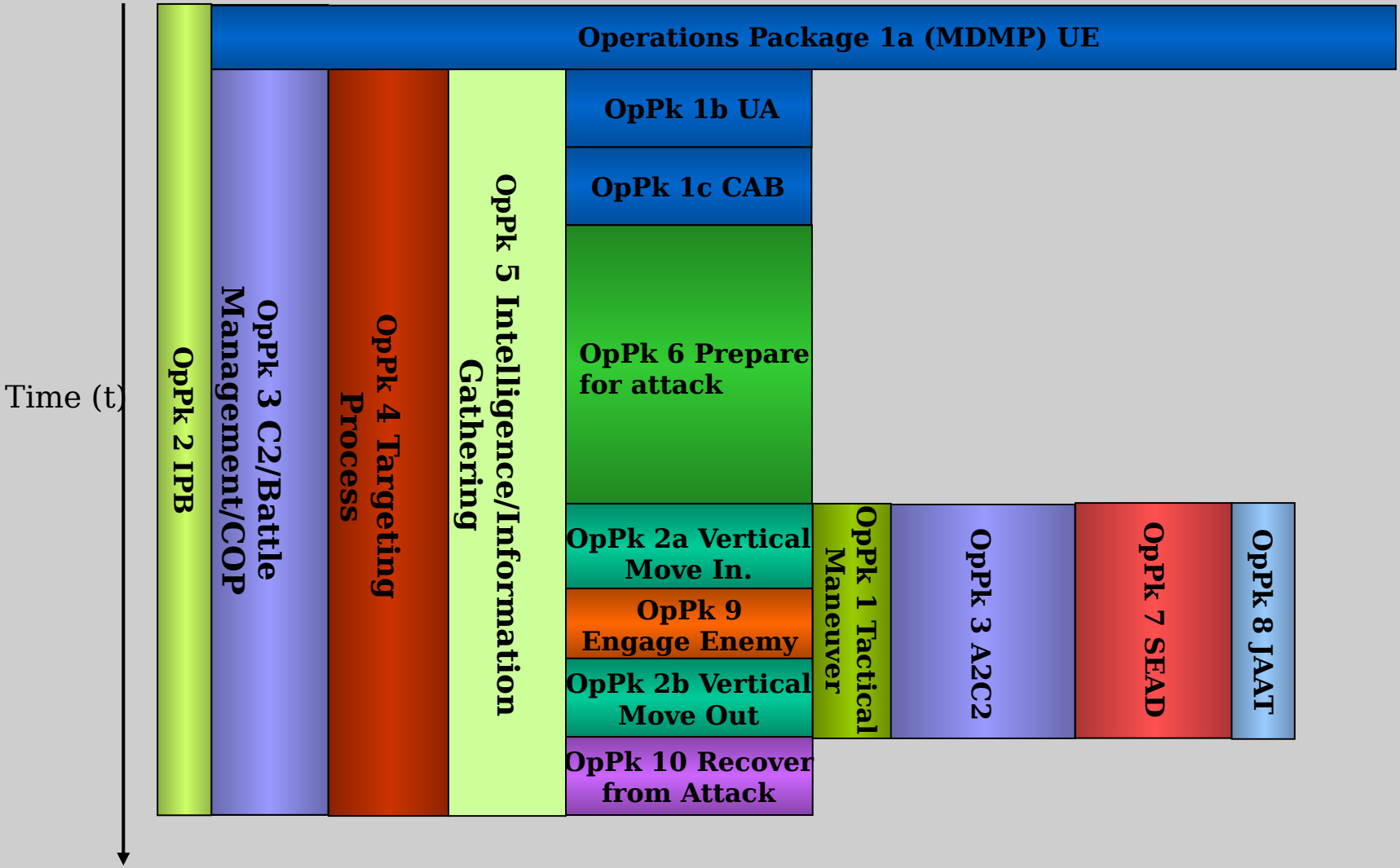


Conduct Joint Mission Analysis

- **Mission is assigned to Commander. Concept of operations may include a number of operations.**
- **Operations, the building blocks of mission planning, are comprised of multiple tasks.**
- **Tasks are the fundamental building blocks of missions, and are executed by specific units or organizations.**


An assignment with a purpose and it consists of Operations
Mission
A military action that supports a mission and consists of tasks
Operation
tion
Task
Task
Discrete event/action executed to accomplish a mission or operation

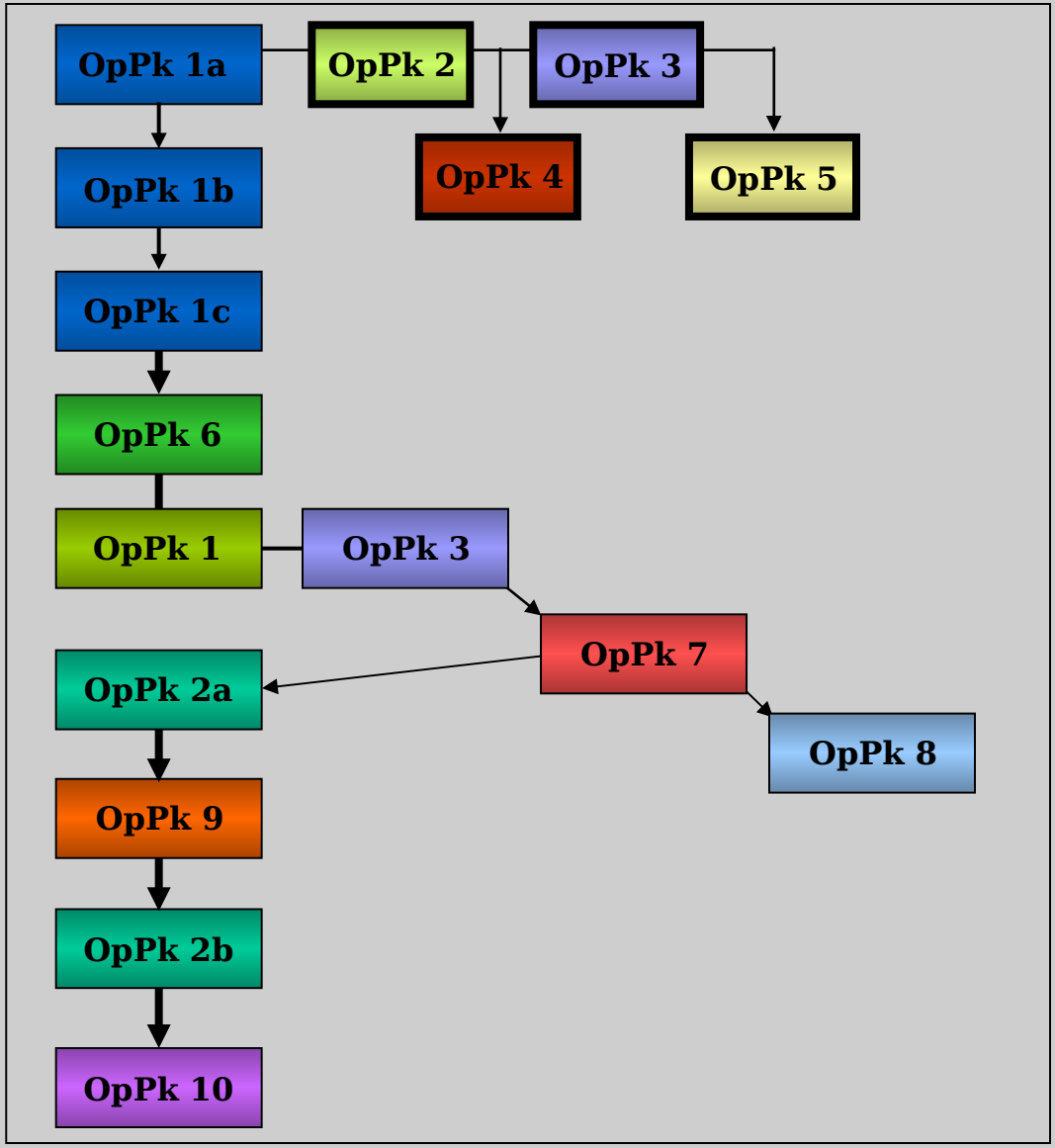
Attack Operations Package



Operations Package 3 (C2/Battle Management)

MoE: Attack planning, coordination and execution is not adversely affected by inaccurate or outdated information concerning environmental conditions, friendly unit location and status or reported enemy activity, location, strength and intentions. (Y/N)				
Sequence #	**Task #**	**Task Title**	**MoP**	**Unit**
3.8	ART 7.3.2.3	Conduct risk management	1) No offensive tasks executed that exceed maximum residual risk established by commander. 2) No casualties as a result of failure to manage risk.	All
3.9	ART 7.6.3	Make adjustments to resources, concept of ops or mission	Adjustments made to exploit opportunities or resolve problems occurring during execution effectively. (Y/N)	Commander
3.10a	ART 7.5.4	Revise and refine the plan	Revision and refinements to the plan completed in less than one third of time available before execution.	Commander and Staff
3.10b	ART 7.6.1.2	Adjust graphic control measures	1) Adjustable graphic control measures accurately reflected changes in METT-TC (w/in 100 meters). 2) Lag time between operations and adjustment of graphic control measures (<5 minutes).	Operations and Intel Cell

Attack Operations Package Sequence



- Start Operations Package 1a first.
- OpPk 2 and OpPk 3 are continuous and feed into OpPk 1a, b, and c
- OpPk 1b, 4 and 5 begin during OpPk 1a.
- OpPk's 4, and 5 are continuous. OpPk 1c begins during OpPk 1b.
- OpPk 6 follows OpPk 1c.
- OpPk 1 and OpPk 3 begin when OpPk 6 ends and end when OpPk 10 begins.
- OpPk 7 begins after OpPk 1 begins and before OpPk 2a begins and ends when OpPk 2b ends.
- OpPk 2a and OpPk 8 begin during OpPk 7.
- OpPk 9 begins after OpPk 2a.

MoE: Country of Interest conventional military forces prevented from re-entering capital and interfering with main effort.